

PUBLICATION NUMBER : 55068871
PUBLICATION DATE : 23-05-80

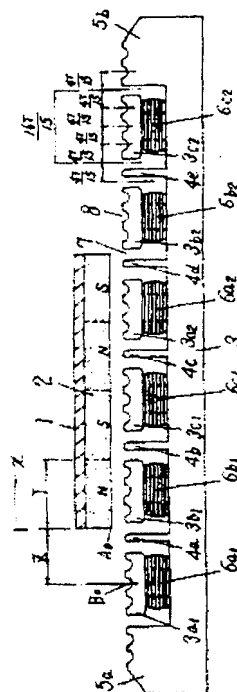
APPLICATION DATE : 17-11-78
APPLICATION NUMBER : 53142594

APPLICANT : MATSUSHITA ELECTRIC IND CO LTD;

INVENTOR : KOBAYASHI KAZUJI;

INT.CL. : H02K 41/03

TITLE : RECTILINEAR-MOVING ELECTRIC MACHINE



ABSTRACT : PURPOSE: To decrease cogging force and output ripple, by mounting an armature core in a shape that faces to a field magnet installed to a moving body, and by disposing auxiliary grooves to the salient-pole portions of the armature core while forming a plurality of auxiliary salient-poles.

CONSTITUTION: A field magnet 2 alternately magnetized to N, S poles is mounted to a moving body 1. An armature core 3 is arranged facing to the field magnet 2, and salient-poles 3a₁~3c₁, 3a₂~3c₂ to which armature winding 6a₁~6c₁, 6a₂~6c₂ are wound are installed. Auxiliary grooves 8 are made up to each salient-pole while auxiliary salient-poles 4a~4e, 5a, 5b are disposed at the fixed locations of the armature core, thus simultaneously diminishing output ripple with cogging force. Consequently, the vibration of a drive source and the unevenness of driving force can be minimized, and its performance can be improved.

COPYRIGHT: (C) JPO